Date & Time Filed: Nov 28 2018 12:46:46:863PM

File Number: SES-MFS-20181128-03302

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: Modification of ESAA Blanket License (Call Sign E100089)

egal Name of Ap Name:	Panasonic Avionics Corporation	Phone Number:	949–672–2364
DBA Name:		Fax Number:	
Street:	26200 Enterprise Way	E–Mail:	mark.defazio@panasonic.aero
City:	Lake Forest	State:	CA
Country:	USA	Zipcode:	92630 –
Attention:	Mr Mark DeFazio		

9–16. Name of Contact Representative

Name: Carlos Nalda Phone Number: 571–332–5626

Company: LMI Advisors **Fax Number:**

Street: 2550 M Street E-Mail: cnalda@lmiadvisors.com

City: Washington, DC State: DC

Country: USA Zipcode: 20037–

Attention: Mr Carlos Nalda **Relationship:** Other

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

b3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

b7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

17c. Is a fee submitted with this application If Yes, complete and attach FCC Form	on? 159. If No, indicate reason for fee exemption	(see 47 C.F.R.Section 1.1114).			
O Governmental Entity O Noncommercial educational licensee					
Other(please explain):					
17d.					
Fee Classification CGB – Mobile Satellite Earth Stations					
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending modification please enter only the file number				
(a) Call sign of station: E100089	(a) Date pending application was filed:	(b) File number:			
E100089		SESMFS2018012200052			

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	e or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
O Connected to a Public Switched Network O Not connected to a	Public Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	pplicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper: (Please specify addition	nal frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
e. Geostationary Space Station
f. Non-Geostationary Space Station
g. Other (please specify) ESAA
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & tountries)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	~	Tech	nical	Арр	endi	IX
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	cal en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	٥	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	•	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?		Yes	0	No	•	N/A

O Yes No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	0	No	1 🗨	N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.						
BASIC QUALIFICATIONS						
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.		•	Yes	() No	•
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.		0	Yes	•	No.	,

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	⊚ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of " party to the application" for these purposes.	⊚ Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, v coordinated or is in the process of coordinating the space station?	what administ	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete descript box, please go to the end of the form to view it in its entirety.)	ion does not a	ppear in this
ESAA License Modification to Add Points of Communication		
Narrative		

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c

CERTIFICATION

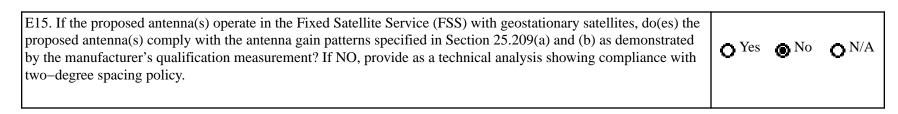
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applic	able response.)	
O Individual		
Unincorporated Association		
O Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
Mark DeFazio	Sr. Manager	
>	•	

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth St	ation Site					
E1: Site Identifier:	PPA	E5. Call Sign:	E100089			
E2: Contact Name	Customer Performance Center	E6. Phone Number:	949–462–1395			
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest			
		E8. County:	Orange			
E4. State	CA	E9. Zip Code	92630			
E10. Area of Operat	ion:	U.S. and international airspace				
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coord	linates are:	O NAD-27	O NAD-83	N/A N/A Output Description N/A Ou		
E14. Site Elevation	(AMSL):	0.0 meters				



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	⊚ N/A		
E17. Is the facility operated by remote control? If YES, provide the loca point.	ntion and telephone number of the control	● Yes	٥	No		
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	O Yes	•	No		
E19. Is coordination with another country required? If YES, attach the recoordination contours as	O Yes	•	No			
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No		
POINTS OF COMMUNICATION						
Satellite Name: OTHER OTHER If you selected OTHER, please e	nter the following:					
E21. Common Name: SES –12 E22. ITU Name:						
E23. Orbit Location: 95 E.L. E24. Country: USA						

Satellite Name: SES-14 (S2974) | SES-14 | 47.5 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: OTHER OTHER If you selected OTHER, please er	iter the following:
E21. Common Name: Chinasat 10	E22. ITU Name:
E23. Orbit Location: 110.5 E.L.	E24. Country: China
Satellite Name: OTHER OTHER If you selected OTHER, please er	iter the following:
E21. Common Name: Apstar 6C	E22. ITU Name:
E23. Orbit Location: 134 E.L.	E24. Country: China
Satellite Name: OTHER OTHER If you selected OTHER, please er	nter the following:
E21. Common Name: AsiaSat 9	E22. ITU Name:
E23. Orbit Location: 122 E.L.	E24. Country: China
Satellite Name: OTHER OTHER If you selected OTHER, please er	nter the following:
E21. Common Name: Apstar 6D	E22. ITU Name:
E23. Orbit Location: 134 E.L.	E24. Country: China
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier: PPA	
E26. Common Name:	E27. Country: USA
E25. Site Identifier: PPA	<u> </u>
E26. Common Name: AsiaSat 9	E27. Country: USA
E20. Common Ivanie. Asiasat 9	E21. Country. USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
PPA	PPA	2000	Panasonic	AURA LE	0.89	37.0 dBi at 14.250	

Id	Diameter		, ,	Height Above	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
PPA	0.0/0.0	0.0	0.0	0.0	10.0	0.0	48.0

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
PPA	10700 11450	R	Horizontal and Vertical	139MG7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

QPSK,	16APSK					

PPA	10700 11450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear i	n this box, please go	to the end of the form	n to view it in its
QPSK, 16AP	SK					
PPA	10700 12750	R	Horizontal and Vertical	139MG7D	0.0	0.0
QPSK, 16AP	SK					
PPA	11450 12450	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear i	n this box, please go	to the end of the form	n to view it in its
QPSK, 16AP	SK					

PPA	11450 12450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation entirety.)		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
QPSK, 16AP	SK					
PPA	12250 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation entirety.) QPSK, 16AP		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its

FREQUENCY COORDINATION

E28. Antenna Id		Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	Station Azimuth	Antenna Elevation Angle	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
PPA	Geostationary	10700 11450	95.0/95.0	0.0	5.0	360.0	5.0	0.0

Geostationary	10700 12750	134.0/134.0	0.0	5.0	360.0	5.0	0.0
Geostationary	10950 11200	47.5/47.5	0.0	5.0	360.0	5.0	0.0
Geostationary	10950 11200	122.0/122.0	0.0	5.0	360.0	5.0	0.0
Geostationary	11450 11700	122.0/122.0	0.0	5.0	360.0	5.0	0.0
Geostationary	11450 12450	47.5/47.5	0.0	5.0	360.0	5.0	0.0
Geostationary	12250 12750	110.5/110.5	0.0	5.0	360.0	5.0	0.0
Geostationary	12250 12750	122.0/122.0	0.0	5.0	360.0	5.0	0.0
Geostationary	12250 12750	134.0/134.0	0.0	5.0	360.0	5.0	0.0
Geostationary	14000 14500	47.5/47.5	0.0	5.0	360.0	5.0	-11.9299
Geostationary	14000 14500	95.0/95.0	0.0	5.0	360.0	5.0	-7.99126
Geostationary	14000 14500	110.5/110.5	0.0	5.0	360.0	5.0	-5.10606
Geostationary	14000 14500	122.0/122.0	0.0	5.0	360.0	5.0	-13.1145
Geostationary	14000 14500	134.0/134.0	0.0	5.0	360.0	5.0	-9.10606
Geostationary	14000 14500	134.0/134.0	0.0	5.0	360.0	5.0	-9.79629

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	_	E66. Phone Number 949–462–1395		
E62. Street Address 26200 Enterprise Way				
E63. City Lake Forest	E68. County Orange		E67/68. State/Country CA/ USA	E64. Zip Code 92630

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth St	ation Site				
E1: Site Identifier:	SPA	E5. Call Sign:	E100089		
E2: Contact Name	Customer Performance Center	E6. Phone Number:	949–462–1395		
E3. Street:	26200 Enterprise Way	E7. City:	Lake Forest		
		E8. County:	Orange		
E4. State	CA	E9. Zip Code	92630		
E10. Area of Operat	ion:	U.S. and internation	al airspace		
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates are:	○ NAD-27	O NAD-83	● N/A	
E14. Site Elevation	(AMSL):	0.0 meters			

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	O Yes	⊚ No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	⊚ N/A

E17. Is the facility operated by remote control? If YES, provide the loc point.	ation and telephone number of the control	Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency co	ordination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FA the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION		!	
Satellite Name: OTHER OTHER If you selected OTHER, please	enter the following:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country: USA		
Satellite Name: OTHER OTHER If you selected OTHER, please	enter the following:		
E21. Common Name: AsiaSat 9	E22. ITU Name:		
E23. Orbit Location: 122 E.L.	E24. Country: China		
C. (11') N OTHER OTHER 16 1. (1 OTHER 1			
Satellite Name: OTHER OTHER If you selected OTHER, please	enter the following:		

E21. Common Name: Apstar 6C	E22. ITU Name:								
E23. Orbit Location: 134 E.L.	E24. Country: China								
Satellite Name: SES-14 (S2974) SES-14 47.5 W.L. If you selected OTHER, please enter the following:									
E21. Common Name:	E22. ITU Name:								
E23. Orbit Location:	E24. Country:								
Satellite Name: OTHER OTHER If you selected OTHER, please er	nter the following:								
E21. Common Name: Apstar 6D	E22. ITU Name:								
E23. Orbit Location: 134 E.L.	E24. Country: China								
Satellite Name: OTHER OTHER If you selected OTHER, please er	ter the following:								
E21. Common Name: Chinasat 10	E22. ITU Name:								
E23. Orbit Location: 110.5 E.L.	E24. Country: China								
Satellite Name: OTHER OTHER If you selected OTHER, please er	nter the following:								
E21. Common Name: SES –12	E22. ITU Name:								
E23. Orbit Location: 95 E.L.	E24. Country: USA								
POINTS OF COMMUNICATION (Destination Points)									
E25. Site Identifier: SPA									
E26. Common Name:	E27. Country: USA								
E25. Site Identifier: SPA									
E26. Common Name: SES –12	E27. Country: USA								

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
SPA	SPA	1000	Panasonic	SPA	0.949	35.0 dBi at 14.250	

Id	Diameter		` ′	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
SPA	0.0/0.0	0.0	0.0	0.0	10.0	0.0	45.0

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
SPA	10700 11450	R	Horizontal and Vertical	139MG7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

	QPSK,	16APSK					
l							
l							
l							

SPA	10700 11450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descript	ion does not appear	in this box, please ş	go to the end of t	the form to view it in its
QPSK, 16AF	SK					
SPA	10700 12750	R	Horizontal and Vertical	139MG7D	0.0	0.0
QPSK, 16AF	SK					
SPA	11450 12450	R	Horizontal and Vertical	139MG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descript	ion does not appear	in this box, please g	go to the end of t	the form to view it in its
QPSK, 16AF	SK					

SPA	11450 12450	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
QPSK, 16AP	SK					
SPA	12250 12750	R	Horizontal and Vertical	1M05G7D	0.0	0.0
E50. Modulation entirety.) QPSK, 16AP		ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its

FREQUENCY COORDINATION

		Limits(MHz)		Station Azimuth Angle		Station Azimuth Angle	Antenna Elevation Angle	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
SPA	Geostationary	10700 11450	95.0/95.0	0.0	5.0	360.0	5.0	0.0

Geostationary	10700 12750	134.0/134.0	0.0	5.0	360.0	5.0	0.0
Geostationary	10950 11200	47.5/47.5	0.0	5.0	360.0	5.0	0.0
Geostationary	10950 11200	122.0/122.0	0.0	5.0	360.0	5.0	0.0
Geostationary	11450 11700	122.0/122.0	0.0	5.0	360.0	5.0	0.0
Geostationary	11450 12450	47.5/47.5	0.0	5.0	360.0	5.0	0.0
Geostationary	12250 12750	110.5/110.5	0.0	5.0	360.0	5.0	0.0
Geostationary	12250 12750	122.0/122.0	0.0	5.0	360.0	5.0	0.0
Geostationary	12250 12750	134.0/134.0	0.0	5.0	360.0	5.0	0.0
Geostationary	14000 14500	47.5/47.5	0.0	5.0	360.0	5.0	-13.631
Geostationary	14000 14500	95.0/95.0	0.0	5.0	360.0	5.0	-9.63046
Geostationary	14000 14500	110.5/110.5	0.0	5.0	360.0	5.0	-7.1042
Geostationary	14000 14500	122.0/122.0	0.0	5.0	360.0	5.0	-15.1041
Geostationary	14000 14500	134.0/134.0	0.0	5.0	360.0	5.0	-11.1072
Geostationary	14000 14500	134.0/134.0	0.0	5.0	360.0	5.0	-11.6327

REMOTE CONTROL POINT LOCATION

E61. Call Sign NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 949–462–1395			
E62. Street Address 26200 Enterprise Way				
E63. City Lake Forest	E68. County Orange		E67/68. State/Country CA/ USA	E64. Zip Code 92630

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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